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Multimodal user interfaces in the Open Agent Architecture

Douglas B. Moran, Adam J. Cheyer, Luc E. Julia, David L. Martin, Sangkyu Park January 1997 Proceedings of the 2nd international conference on Intelligent user interfaces IUI '97

Publisher: ACM Press

Full text available: pdf(980.98 KB) Additional Information: full citation, references, citings, index terms

Keywords: agent architecture, gesture, handwriting, multimodal, natural language, speech

<u>DRPM: dynamic speed control for power management in server class disks</u>



Sudhanva Gurumurthi, Anand Sivasubramaniam, Mahmut Kandemir, Hubertus Franke May 2003 ACM SIGARCH Computer Architecture News, Proceedings of the 30th annual international symposium on Computer architecture ISCA '03, Volume 31 Issue 2

Publisher: ACM Press

Full text available: 📆 pdf(292.52 KB) Additional Information: full citation, abstract, references, citings

A large portion of the power budget in server environments goes into the I/O subsystem the disk array in particular. Traditional approaches to disk power management involve completely stopping the disk rotation, which can take a considerable amount of time, making them less useful in cases where idle times between disk requests may not be long enough to outweigh the overheads. This paper presents a new approach called DRPM to modulate disk speed (RPM) dynamically, and gives a practical impleme ...

Keywords: power management, server disks

MVIEWS: multimodal tools for the video analyst

Adam Cheyer, Luc Julia

January 1998 Proceedings of the 3rd international conference on Intelligent user interfaces IUI '98

Publisher: ACM Press

Full text available:

Additional Information:

pdf(1.06 MB)

full citation, references, citings, index terms

Keywords: agent architecture, image processing and object tracking, multimodal pen and voice user interfaces, video analysis and annotation

First-class user-level threads

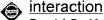
Brian D. Marsh, Michael L. Scott, Thomas J. LeBlanc, Evangelos P. Markatos September 1991 ACM SIGOPS Operating Systems Review, Proceedings of the thirteenth ACM symposium on Operating systems principles SOSP **'91**, Volume 25 Issue 5

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.53 MB) terms

It is often desirable, for reasons of clarity, portability, and efficiency, to write parallel programs in which the number of processes is independent of the number of available processors. Several modern operating systems support more than one process in an address space, but the overhead of creating and synchronizing kernel processes can be high. Many runtime environments implement lightweight processes (threads) in user space, but this approach usually results in second-class status for threa ...

5 Something from nothing: augmenting a paper-based work practice via multimodal



David R. McGee, Philip R. Cohen, Lizhong Wu

April 2000 Proceedings of DARE 2000 on Designing augmented reality environments **DARE '00**

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(175.28 KB)

In this paper, we describe Rasa: an environment designed to augment, rather than replace, the work habits of its users. These work habits include drawing on Post-it™ notes using a symbolic language. Rasa observes and understands this language, assigning meaning simultaneously to objects in both the physical and virtual worlds. With Rasa, users rollout a paper map, register it, and move the augmented objects from one place to another on it. Once an object is augmented, users can m ...

Keywords: augmented reality, invisible interfaces, mixed reality, multimodal interfaces, phicons, tangible interfaces, ubiquitous computing

A virtual circuit switch as the basis for distributed systems

G. W.R. Luderer, H. Che, W. T. Marshall

October 1981 ACM SIGCOMM Computer Communication Review, Proceedings of the seventh symposium on Data communications SIGCOMM '81', Volume 11 Issue 4

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.00 MB) terms

A communication system is presented which consists of a switch (Datakit [Fraser 1979]) with associated control and interface hardware and software. The switch offers virtual circuit service which is internally implemented through packet switching. The users of the communication system are operating systems; using our communication system, we have implemented a network of UNIXTM systems and a new distributed operating system

infrastructure-based secure proxy architecture to bridge the gap between the capabilities of Post-PC devices and the requirements of Internet ser ...

Keywords: internet, middleware, post-PC, security, transcoding

14 Coincident display using haptics and holographic video

Wendy Plesniak, Ravikanth Pappu

January 1998 Proceedings of the SIGCHI conference on Human factors in computing systems CHI '98

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available: pdf(1.12 MB) Additional Information: full citation, references, citings, index terms

Keywords: autostereoscopic display, coincident display, electro-holography, haptics, holography, offset display

15 Towards automatic evaluation of multimodal user interfaces

Sandrine Balbo, Joëlle Coutaz, Daniel Salber

February 1993 Proceedings of the 1st international conference on Intelligent user interfaces IUI '93

Publisher: ACM Press

Full text available: pdf(807.76 KB) Additional Information: full citation, references, citings, index terms

Keywords: Wizard of Oz, capture of behavioral data, multimodal user interface, user interface evaluation techniques

An impact analysis method for safety-critical user interface design

Julia Galliers, Alistair Sutcliffe, Shailey Minocha

December 1999 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 6 Issue 4

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(248.35 KB) terms, review

We describe a method of assessing the implications for human error on user interface design of safety-critical systems. In previous work we have proposed a taxonomy of influencing factors that contribute to error. In this article, components of the taxonomy are combined into a mathematical and causal model for error, represented as a Bayesian Belief Net (BBN). The BBN quantifies error influences arising from user knowledge, ability, and the task environ-ment, combined with factors describin ...

Keywords: Bayesian belief networks, human error, safety-critical, scenario-based casual analysis

17 MOVE:: component groupware foundations for collaborative virtual environments

Pedro García, Oriol Montalà, Carles Pairot, Robert Rallo, Antonio Gómez Skarmeta September 2002 Proceedings of the 4th international conference on Collaborative virtual environments CVE '02

Publisher: ACM Press

Full text available:

Additional Information: full citation, abstract, references, citings, index

pdf(607.34 KB)

terms

The design of a Virtual Environment (VE) is a distributed problem of multi-user access to shared resources. Such problem requires careful design decisions in order to provide a seamless system infrastructure capable of supporting flexible interactions in the shared scenarios. The complexity of this domain has led to intricate software systems that provide ad-hoc solutions to specific problems. Furthermore, many of them have gone to a dead end, due to their non-extensible design and their lack of ...

Keywords: component groupware, distributed systems, frameworks, virtual environments

3D agent-based virtual communities

③

Zhisheng Huang, Anton Eliëns, Cees Visser

February 2002 Proceeding of the seventh international conference on 3D Web technology Web3D '02

Publisher: ACM Press

Full text available: pdf(898.08 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

In this paper we propose an approach to 3D agent-based virtual communities in which autonomous agents are participants in VRML-based virtual worlds to enhance the interaction with users or serve as intelligent navigation assistants. In addition, an agent communication language (ACL) is designed as a high-level communication facility, in particular for the realization of shared objects in virtual communities. As a typical example of 3D agent-based virtual communities, a VRML-based multi-user socc ...

Keywords: ACL, VRML, agents, distributed logic programming, networked virtual environments, virtual community

19 Full Technical Papers: Multimodal event parsing for intelligent user interfaces



Will Fitzgerald, R. James Firby, Michael Hannemann

January 2003 Proceedings of the 8th international conference on Intelligent user interfaces IUI '03

Publisher: ACM Press

Full text available: pdf(827.30 KB) Additional Information: full citation, abstract, references, index terms

Many intelligent interfaces must recognize patterns of user activity that cross a variety of different input channels. These multimodal interfaces offer significant challenges to both the designer and the software engineer. The designer needs a method of expressing interaction patterns that has the power to capture real use cases and a clear semantics. The software engineer needs a processing model that can identify the described interaction patterns efficiently while maintaining meaningful inte ...

Keywords: CERA, event recognition, multi-modal parsing

20 Creating tangible interfaces by augmenting physical objects with multimodal



language

David R. McGee, Philip R. Cohen

January 2001 Proceedings of the 6th international conference on Intelligent user interfaces IUI '01

Publisher: ACM Press

Full text available: pdf(560.34 KB)

 $\textbf{Additional Information:} \ \underline{\textbf{full citation}}, \ \underline{\textbf{abstract}}, \ \underline{\textbf{references}}, \ \underline{\textbf{citings}}, \ \underline{\textbf{index}}$

terms

Rasa is a tangible augmented reality environment that digitally enhances the existing paper-based command and control capability in a military command post. By observing and understanding the users' speech, pen, and touch-based multimodal language, Rasa computationally augments the physical objects on a command post map, linking these items to digital representations of the same-for example, linking a paper map to the world and Post-itâ notes to military units. Herein, we give a thorough ac ...

Keywords: augmented reality, human factors, invisible interfaces, mixed reality, multimodal interfaces, tangible interfaces

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